

FORM PTO-1390 (Modified)  
(REV. 07-2004)

U.S. PATENT AND TRADEMARK OFFICE; U.S. DEPARTMENT OF COMMERCE

ATTORNEY'S DOCKET NUMBER

## TRANSMITTAL LETTER TO THE UNITED STATES

7175-71858

DESIGNATED/ELECTED OFFICE (DO/EO/US)

U.S. APPLICATION NO. (If known, see 37 CFR 1.5)

CONCERNING A SUBMISSION UNDER 35 U.S.C. 371

10/509,137

INTERNATIONAL APPLICATION NO.

PCT/US02/41210

INTERNATIONAL FILING DATE

20 December 2002 (20.12.02)

PRIORITY DATE CLAIMED

10 April 2002 (10.04.02)

TITLE OF INVENTION

ACCESS OPENINGS IN VACUUM BANDAGE

APPLICANT(S) FOR DO/EO/US

LOCKWOOD, Jeffrey S.; PETROSENKO, Robert

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☐ This is a **FIRST** submission of items concerning a submission under 35 U.S.C. 371.
2. ☒ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a submission under 35 U.S.C. 371.
3. ☐ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below.
4. ☐ The US has been elected (Article 31).
5. ☐ A copy of the International Application as filed (35 U.S.C. 371 (c) (2))
  - a. ☐ is attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ has been communicated by the International Bureau.
  - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☐ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
  - a. ☐ is attached hereto.
  - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☐ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))
  - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ have been communicated by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - d. ☐ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).
10. ☐ An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).
11. ☐ A copy of the International Preliminary Examination Report (PCT/IPEA/409).
12. ☐ A copy of the International Search Report (PCT/ISA/210).

## Items 13 to 23 below concern document(s) or information included:

13. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
14. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
15. ☐ A **FIRST** preliminary amendment.
16. ☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
17. ☐ A substitute specification.
18. ☐ A power of attorney and/or change of address letter.
19. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.
20. ☐ A second copy of the published International Application under 35 U.S.C. 154(d)(4).
21. ☐ A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).
22. ☒ Express Mail Label No. EV 417054879 US
23. ☒ Other items or information:

One Copy of Each Reference Cited in "Foreign Patent Document" and "Other References"

U.S. APPLICATION NO (if known, see 37 CFR 1.5) <b>10/509,137</b>	INTERNATIONAL APPLICATION NO. <b>PCT/US02/41210</b>	ATTORNEY'S DOCKET NUMBER <b>7175-71858</b>
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24. The following fees are submitted: <b>BASIC NATIONAL FEE (37 CFR 1.492(a)(1)-(5)) :</b>				<b>CALCULATIONS PTO USE ONLY</b>	
<input type="checkbox"/> Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO ..... <b>\$1110.00</b>					
<input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO ..... <b>\$950.00</b>					
<input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO ..... <b>\$790.00</b>					
<input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4) ..... <b>\$750.00</b>					
<input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4) ..... <b>\$100.00</b>					
<b>ENTER APPROPRIATE BASIC FEE AMOUNT =</b>				<b>\$0.00</b>	
Surcharge of <b>\$130.00</b> for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(e)).				<b>\$0.00</b>	
<b>CLAIMS</b>	<b>NUMBER FILED</b>	<b>NUMBER EXTRA</b>	<b>RATE</b>		
Total claims	- 20 =	0	x \$18.00	<b>\$0.00</b>	
Independent claims	- 3 =	0	x \$88.00	<b>\$0.00</b>	
Multiple Dependent Claims (check if applicable). <input type="checkbox"/>				<b>\$0.00</b>	
<b>TOTAL OF ABOVE CALCULATIONS =</b>				<b>\$0.00</b>	
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.				<b>\$0.00</b>	
<b>SUBTOTAL =</b>				<b>\$0.00</b>	
Processing fee of <b>\$130.00</b> for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				<b>\$0.00</b>	
<b>TOTAL NATIONAL FEE =</b>				<b>\$0.00</b>	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31) (check if applicable). <input type="checkbox"/>				<b>\$0.00</b>	
<b>TOTAL FEES ENCLOSED =</b>				<b>\$0.00</b>	
				<b>Amount to be: refunded</b>	<b>\$</b>
				<b>charged</b>	<b>\$</b>

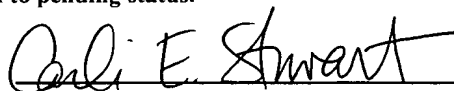
- a. ☐ A check in the amount of \_\_\_\_\_ to cover the above fees is enclosed.
- b. ☐ Please charge my Deposit Account No. \_\_\_\_\_ in the amount of \_\_\_\_\_ to cover the above fees.
- c. ☒ The Director is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. **10-0435**
- d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. **Credit card information should not be included on this form.** Provide credit card information and authorization on PTO-2038.

**NOTE:** Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

**CONARD, Richard D.  
BARNES & THORNBURG  
11 South Meridian Street  
Indianapolis, IN 46204  
US**

Customer No.: 23643

  
SIGNATURE

**Carli E. STEWART**

NAME

**51058**

REGISTRATION NUMBER

**November 2004 ( .11.04)**

DATE

43

## IN THE UNITED STATES PATENT OFFICE

Earliest Priority Date:	10 April 2002 (10.04.02)	}
		}
		}
International Serial No.:	PCT/US02/41210	}
		}
		}
U.S. Serial No.:	10/509,137	}
		}
		}
Invention:	ACCESS OPENINGS IN VACUUM BANDAGE	}
		}
		}
Applicant:	LOCKWOOD, Jeffrey S.; PETROSENKO, Robert	}
		}
		}
International Filing Date:	20 December 2002 (20.12.02)	}
		}
		}
Attorney Docket:	7175-71858	}

**CERTIFICATE UNDER 37 C.F.R. § 1.10**

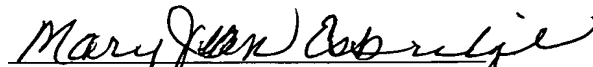
MAIL STOP PCT  
Attention: DO/EO/US  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA. 22313-1450

Sir:

Express Mail" Mailing Label No.: EV 417054879 US

Date of Deposit: 19 November 2004 (19.11.2004)

I hereby certify that this paper or fee is being deposited with the United States Postal Service's "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA. 22313-1450.

  
Mary Jean Eskridge

Indianapolis, Indiana  
(317) 231-7303

**BARNES & THORNBURG LLP**

11 South Meridian Street  
Indianapolis, Indiana 46204  
(317) 236-1313  
(317) 231-7433 Fax

IN THE UNITED STATES PATENT OFFICE

*Earliest Priority Date:* 10 April 2002 (10.04.02)

*International Serial No.:* PCT/US02/41210

*U.S. Serial No.:* 10/509,137

*Invention:* ACCESS OPENINGS IN VACUUM  
BANDAGE

*Applicant:* LOCKWOOD, Jeffrey S.;  
PETROSENKO, Robert

*International Filing Date:* 20 December 2002 (20.12.02)

*Attorney Docket:* 7175-71858

Certificate Under 37 CFR 1.10

Express Mail No.: EV417054879US

Date of Mailing: 19 November 2004

I hereby certify that this correspondence is being deposited with the United States Postal Service's "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date above and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA. 22313-1450.

(Signature)

Mary Jean Eskridge

(Typed or Printed Name of Person Mailing Paper or Fee)

**INFORMATION DISCLOSURE STATEMENT**

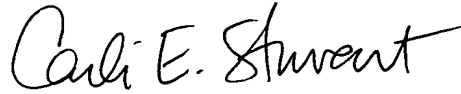
Attention: DO/EO/US  
MAIL STOP PCT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

This statement is filed in the application identified above pursuant to 37 C.F.R. § 1.56. No representation is intended that a complete search has been made of the prior art or that no better art references than listed below are available. Copies of the U.S. references, if any, are not provided per the Office's Waiver of the requirement under 37 C.F.R. § 1.98. See Off. Gaz. Pat. Off. 1276, 05 August 2003. However, copies of the "Foreign Patent Documents" and "Other References" cited are provided for review by the Examiner. The filing of this Statement shall not be construed to be an admission that the information cited in the Statement is, or is considered to be, material to patentability as defined in §1.56(b).

Please charge any fees that might be due in connection with this Information Disclosure Statement to our Deposit Account No. 10-0435, using our reference number 7175-71858. A duplicate copy of this authorization is enclosed for that purpose.

Respectfully submitted,

A handwritten signature in black ink, reading "Carli E. Stewart". The signature is written in a cursive, flowing style.

Carli E. STEWART  
Attorney Reg. No. 51058

CES/mje/690975v1  
Indianapolis, Indiana 46204  
(317) 231-7216

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 7175-71858		SERIAL No. 10/509,137	
				APPLICANT Jeffrey S. Lockwood et al.			
				FILING DATE Unknown		GROUP Unknown	

U.S. PATENT DOCUMENTS							
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	AA	774,529	Nov. 8, 1904	Nieschang			
	AB	1,000,001	Aug. 8, 1911	Holz			
	AC	1,355,846	Oct. 19, 1920	Rannells			
	AD	1,385,346	Jul. 19, 1921	Taylor			
	AE	1,936,129	Nov. 21, 1933	Fisk			
	AF	2,195,771	Apr. 2, 1940	Estler			
	AG	2,221,758	Nov. 19, 1940	Elmquist			
	AH	2,338,339	Jan. 4, 1944	LaMere et al			
	AI	2,443,481	Jun. 15, 1948	Sene			
	AJ	2,573,791	Nov. 6, 1951	Howells			
	AK	2,577,945	Dec. 11, 1951	Atherton			

FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation Yes No
	AL	1,549,756	Aug. 8, 1979	Great Britain			
	AM	500,253	Mar. 1920	France			X
	AN	0,372,727	Mar. 1923	Germany			X
	AO	84485	Oct. 1935	Sweden			X
	AP	64055	Oct. 1945	Denmark			X

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)		
AR	Davydov, et al., Vestn. Khir., Sept. 1988 - "Vacuum Therapy in the Treatment of Acute Suppurative Diseases Of Soft Tissues and Suppurative Wounds" (English translation by R. McElroy Translation Co., Austin, Texas)	
AS	Davydov, et al., Khirurgia, June 1990 - "Pathogenic Mechanism of the Effect of Vacuum Therapy on the Course of the Wound Process" (English translation by R. McElroy Translation Co., Austin, Texas)	
AT	Davydov, et al., Vestn. Khir., Nov. 1986 - "Vacuum Therapy in the Treatment of Suppurative Lactation Mastitis" (English translation by R. McElroy Translation Co., Austin, Texas)	
AU	Davydov, et al., Vestn. Khir., Oct. 1988 - "Bacteriological and Cytological Evaluation of the Vacuum Therapy of Suppurative Wounds" (English translation by R. McElroy Translation Co., Austin, Texas)	
AV	Davydov, et al., Vestn. Khir., Mar. 1990 - "Basis of the Use of Forced Early Secondary Suture in the Treatment of Suppurative Wounds by the Vacuum Therapy Method" (English translation by R. McElroy Translation Co., Austin, Texas)	
AW	Mirazimov, et al., Ortop Travmatol Protez., Oct. 1966 - "Free Skin Graft of the Foot with Preparation of the Wound Surface by Vacuum Treatment" (English translation by R. McElroy Translation Co., Austin, Texas)	
AX	Borzov, et al., Vestn. Dermatol. Venerol., Aug. 1965 - "Vacuum Therapy of Some Skin Diseases" (English translation by R. McElroy Translation Co., Austin, Texas)	
AY	Jeter, et al., Chronic Wound Care; 27: pp. 240-246 - "Managing Draining Wounds and Fistulae: New and Established Methods"	
AZ	Mulder, et al., Wound Healing Publications 1991 - "Clinicians' Pocket Guide to Chronic Wound Repair"	

Examiner	Date Considered
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

BASED ON FORM PTO 1449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE  
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.  
7175-71858

SERIAL No.  
10/509,137

APPLICANT  
Jeffrey S. Lockwood et al.

FILING DATE  
Unknown

GROUP  
Unknown

## U.S. PATENT DOCUMENTS

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	BA	2,632,443	Mar. 24, 1953	Lesher			
	BB	2,682,873	Jul. 6, 1954	Evans et al.			
	BC	3,026,874	Mar. 27, 1962	Stevens			
	BD	3,315,665	Apr. 25, 1967	MacLeod			
	BE	3,367,332	Feb. 6, 1968	Groves			
	BF	3,382,867	May 14, 1968	Reaves			
	BG	3,520,300	Jul. 14, 1970	Flower, Jr.			
	BH	3,528,416	Sep. 15, 1970	Chamberlain			
	BI	3,610,238	Oct. 5, 1971	Rich, Jr.			
	BJ	3,648,692	Mar. 14, 1972	Wheeler			
	BK	3,782,377	Jan. 1, 1974	Rychlik			

## FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation Yes No
	BL	641,061	Aug. 2, 1950	Great Britain			
	BM	587,941	Jan. 1978	Soviet Union			X
	BN	28 09 828 A1	Sep. 21, 1978	Germany			X
	BO	1268175 A1	Nov. 1986	Soviet Union			X
	BP	WO 90/11795	Oct. 18, 1990	WO			

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

	BR	Valenta, AIN April 1994; pp. 44-45 - "Using the Vacuum Dressing Alternative for Difficult Wounds"
	BS	Wolthuis, et al., Physiological Reviews July 1974; Vol. 54, No. 3, pp. 566-595 - "Physiological Effects of Locally Applied Reduced Pressure in Man"
	BT	Fleischmann, WundForum Spezial IHW 1994; pp. 54-55 - "Vacuum Sealing for Treatment of Problematical Wounds" (English translation provided)
	BU	Bucalo, et al., Wound Repair and Regeneration; July-Sept. 1993; pp. 181-186 - "Inhibition of Cell Proliferation by Chronic Wound Fluid"
	BV	Olenius, et al., Plastic and Reconstructive Surgery Feb. 1993; pp. 213-215 - "Mitotic Activity in Expanded Human Skin"
	BW	Viljanto, et al., Br. J. Surg. 1976; Vol. 63; pp. 427-430 - "Local Hyperalimination of Open Wounds"
	BX	Dunlop, et al., Br. J. Surg. May, 1990; Vol. 77; pp. 562-563 - "Vacuum Drainage of Groin Wounds after Vascular Surgery: A Controlled Trial"
	BY	Comment-Ruckley et al., April 1991, pp. 505-506 on "Vacuum Drainage of Groin Wounds after Vascular Surgery"
	BZ	Landis, et al., Alternate Suction and Pressure, pp. 925-961 - "The Effects of Alternative Suction and Pressure on Blood Flow to the Lower Extremities"

Examiner

Date Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609.

Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 7175-71858		SERIAL No. 10/509,137	
				APPLICANT Jeffrey S. Lockwood et al.			
				FILING DATE Unknown		GROUP Unknown	

U.S. PATENT DOCUMENTS							
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	CA	3,812,972	May 28, 1974	Rosenblum			
	CB	3,814,095	Jun. 4, 1974	Lubens			
	CC	3,817,145	Oct. 6, 1998	Augustine et al.			
	CD	3,874,387	Apr. 1, 1975	Barbieri			
	CE	3,903,882	Sep. 9, 1975	Augurt			
	CF	3,935,863	Feb. 3, 1976	Kliger			
	CG	3,954,105	May 4, 1976	Nordby et al.			
	CH	4,080,970	Mar. 28, 1978	Miller			
	CI	4,112,947	Sep. 12, 1978	Nehring			
	CJ	4,139,004	Feb. 13, 1979	Gonzalez, Jr.			
	CK	4,149,541	Apr. 17, 1979	Gammons et al.			

FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation Yes      No
	CL	WO 91/00718	Jan. 24, 1991	WO			
	CM	WO92/19313	Nov. 12, 1992	WO			
	CN	WO 92/20299	Nov. 26, 1992	WO			
	CO	DE 4111122 A1	Apr. 29, 1993	Germany			X
	CP	WO 93/09727	May 27, 1993	WO			

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)		
	CR	Morykwas, et al., Extracellular Matrix and Healing 1993; pp. 800 - "Use of Negative Pressure to Increase the Rate of Granulation Tissue Formation in Chronic Open Wounds"
	CS	Svedman, et al., Annals of Plastic Surgery Aug. 1986; Vol. 17, No. 2: pp. 125-133 - "A Dressing System Providing Fluid Supply and Suction Drainage Used for Continuous or Intermittent Irrigation"
	CT	Schneider, et al., Plastic and Reconstructive Surgery Sept. 1998, pp. 1195-1198 - "A New and Reliable Method of Securing Skin Grafts to the Difficult Recipient Bed"
	CU	Morykwas, et al., www.sma.org/soa/jsoawt97 - "Nonsurgical Modalities to Enhance Healing and Care of Soft Tissue Wounds"; February 11, 1999; 16 pages
	CV	Chariker, et al., Contemporary Surgery June 1989; Vol. 34: pp. 59-63 - "Effective Management of Incisional and Cutaneous Fistulae with Closed Suction Wound Drainage"
	CW	Tittel, et al., Eingag und Annahme des Manuskripts Jan. 7, 1987; pp. 104-107 - "New Standards in Postoperative Wound Drainage"
	CX	Genecov, et al., Annals of Plastic Surgery March, 1998; Vol. 40, No. 3: pp. 219-225 - "A Controlled Subatmospheric Pressure Dressing Increases the Rate of Skin Graft Donor Site Reepithelialization"
	CY	Morykwas, et al., Annals of Plastic Surgery June 1997; Vol. 38, No. 6: pp. 553-562 - "Vacuum-Assisted Closure: A New Method for Wound Control and Treatment: Animal Studies and Basic Foundation"
	CZ	Argenta, et al., Annals of Plastic Surgery June, 1997; Vol. 38, No. 6: pp. 563-577 - "Vacuum-Assisted Closure: A New Method for Wound Control and Treatment: Clinical Experience"

Examiner	Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609.  
 Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

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Jeffrey S. Lockwood et al.

FILING DATE  
Unknown

GROUP  
Unknown

## U.S. PATENT DOCUMENTS

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	DA	4,224,941	Sep. 30, 1980	Stivala			
	DB	4,250,882	Feb. 17, 1981	Adair			
	DC	4,275,721	Jun. 30, 1981	Olson			
	DD	4,297,995	Nov. 3, 1981	Golub			
	DE	4,341,209	Jul. 27, 1982	Schaar			
	DF	4,373,519	Feb. 15, 1983	Errede et al.			
	DG	4,373,659	Mar. 29, 1983	Edenbaum et al.			
	DH	4,382,441	May 10, 1983	Svedman			
	DI	4,399,816	Aug. 23, 1983	Spangler			
	DJ	4,457,755	Jul. 3, 1984	Wilson			
	DK	4,460,370	Jul. 17, 1984	Allison et al.			

## FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation Yes No
	DL	EP 0 777 504 B1	Oct. 21, 1998	Europe			
	DM	WO 96/05873	Feb. 29, 1996	WO			
	DN	EP 0 880 953 A2	Dec. 2, 1998	Europe			X
	DO	WO 00/26100	May 11, 2000	WO			
	DP	WO 00/30567	Jun. 2, 2000	WO			

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

	DR	Patent Application and Drawings - "Method of Treating Tissue Damage and Apparatus for Same", consisting of 28 pages
	DS	Patent Application and Drawings - "The Enhancement of Wound Healing and Flap Survival by a New Negative Pressure Device", Argenta et al., consisting of 30 pages
	DT	Nakayama, et al., Ann Plast Surg. May 1991; Vol. 26, No. 5: pp. 499-502 - "A New Dressing Method for Free Skin Grafting in Hands"
	DU	Medical Industry Week - article "KCI Offers New Treatment for Non-Healing Wounds"; 1 page
	DV	Nakayama, et al., Plast. Reconstr. Surg., Dec. 1990; Vol. 86, No. 6: pp. 1216-1219 - "A New Method for the Dressing of Free Skin Grafts"
	DW	Sames, Br. Med. J., Nov. 5, 1977; Vol. 2, No. 6096: 1123 - "Sealing of Wounds with Vacuum Drainage"
	DX	Fleishmann, et al., Unfallchirurg 1993; 96:488-492 - "Vacuum Sealing for Treatment of Soft Tissue Injury in Open Fractures" (English translation of the Summary provided)
	DY	Teder, et al., J. Invest. Surg. 1990; Vol. 3: pp. 399-407 - "Continuous Wound Irrigation in the Pig"
	DZ	Wood, et al., Br. J. of Surg. 1977; Vol. 64: pp. 554-557 - "Foam Elastomer Dressing in the Management of Open Granulating Wounds: Experience with 250 Patients"

Examiner

Date Considered

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Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.  
7175-71858

SERIAL No.  
10/509,137

APPLICANT  
Jeffrey S. Lockwood et al.

FILING DATE  
Unknown

GROUP  
Unknown

## U.S. PATENT DOCUMENTS

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	EA	4,465,062	Aug. 14, 1984	Versaggi et al.			
	EB	4,469,092	Sep. 4, 1984	Marshall et al.			
	EC	4,540,412	Sep. 10, 1985	Van Overloop			
	ED	4,525,166	Jun. 25, 1985	Leclerc			
	EE	4,533,352	Aug. 6, 1985	Van Beek et al.			
	EF	4,553,967	Nov. 19, 1985	Ferguson et al.			
	EG	4,569,674	Feb. 11, 1986	Phillips et al.			
	EH	4,573,965	Mar. 4, 1986	Russo			
	EI	4,579,555	Apr. 1, 1986	Russo			
	EJ	4,605,399	Aug. 12, 1986	Weston et al.			
	EK	4,608,041	Aug. 26, 1986	Nielsen			

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		Document Number	Date	Country	Class	Subclass	Translation Yes No
	EL	WO 00/32247	Jun. 8, 2000	WO			
	EM	WO 00/38552	Jul. 6, 2000	WO			
	EN	2,303,085	Mar. 25, 1999	Canada			
	EO	DE 19722075C1	Oct. 1, 1998	Germany			X (abstract only)
	EP	DE 3102674A1	Sep. 2, 1982	Germany			X

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

	ER	Neumann, et al., J. of Biomed. Materials Research 1981, Vol. 15: pp. 9-18 - "Gelatin-Based Sprayable Foam as a Skin Substitute"
	ES	Kostluchenok et al., Vestn. Khir. Sept. 1986 - "Vacuum Treatment in the Surgical Treatment of Suppurative Wounds" (English translation by R. McElroy Translation Co., Austin, Texas)
	ET	Lundvall, et al., Acta Physiol. Scand. 1989, Vol. 136: pp. 403-409 - "Transmission of Externally Applied Negative Pressure to the Underlying Tissue. A Study on the Upper Arm of Man"
	EU	Brochure - Aeros - Instavac Aspirator; 1 page
	EV	Brochure - Pleur-evac Adult-Pediatric-Non-Metered Disposable "3-Bottle" Unit, A-4000; 6 pages
	EW	Brochure - Hiblow Air Pump; 1 page
	EX	Brochure - Aeros - Care-E-Vac; 2 pages
	EY	One page brochure - Aeros - MobilvacII
	EZ	Brochure/Instruction Manual - Creative Medical Laboratories, Inc. - TUGS (Transportable Universal Gradient Suction) System

Examiner

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7175-71858

SERIAL No.  
10/509,137

APPLICANT  
Jeffrey S. Lockwood et al.

FILING DATE  
Unknown

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*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	FA	4,624,656	Nov. 25, 1986	Clark et al.			
	FB	4,633,863	Jan. 6, 1987	Filips et al.			
	FC	4,637,819	Jan. 20, 1987	Oullette et al.			
	FD	4,641,643	Feb. 10, 1987	Greer			
	FE	4,655,754	Apr. 7, 1987	Richmond et al.			
	FF	4,661,093	Apr. 28, 1987	Beck et al.			
	FG	4,664,652	May 12, 1987	Weilbacher			
	FH	4,664,662	May 12, 1987	Webster			
	FI	4,667,666	May 26, 1987	Fryslie			
	FJ	4,679,590	Jul. 14, 1987	Hergenroeder			
	FK	4,717,382	Jan. 5, 1988	Clemens et al.			

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		Document Number	Date	Country	Class	Subclass	Translation Yes No
	FL	DE 3539533A1	May 14, 1987	Germany			X
	FM	EP 0424165A1	Apr. 24, 1991	Europe			
	FN	EP 0485657A1	May 20, 1992	Europe			
	FO	EP 0547496A1	Jun. 23, 1993	Europe			
	FP	EP 0853 950A1	Jul. 22, 1998	Europe			

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

	FR	Brochure - Wells Johnson Company - Point 5 Aspirator; 2 pages
	FS	Brochure - Microtek Heritage, Inc. - The Wound-Evac ET, Closed Wound Suction System; 4 pages
	FT	Brochure - KCI - The V.A.C. (Vacuum Assisted Closure), Nov. 5, 1998; 7 pages
	FU	Brochure - Augustine Medical, Warm-Up Active Wound Therapy Wound Covers, 1999; 3 pages
	FV	Brochure - Series 55 - Emerson Post-Operative Suction Pumps; 1 page
	FW	Brochure - Emerson Transport Suction Unit; 1 page
	FX	
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	GA	4,733,659	Mar. 29, 1988	Edenbaum et al.			
	GB	4,743,232	May 10, 1988	Kruger			
	GC	4,747,166	May 31, 1988	Kuntz			
	GD	4,759,354	Jul. 26, 1988	Quarfoot			
	GE	4,765,316	Aug. 23, 1988	Marshall			
	GF	4,778,446	Oct. 18, 1988	Jensen			
	GG	4,778,456	Oct. 18, 1988	Lokken			
	GH	4,820,265	Apr. 11, 1989	DeSatnick et al.			
	GI	4,820,284	Apr. 11, 1989	Hauri			
	GJ	4,834,110	May 30, 1989	Richard			
	GK	4,872,450	Oct. 10, 1989	Austad			

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		Document Number	Date	Country	Class	Subclass	Translation Yes No
	GL	EP 1 088 569A2	Apr. 4, 2001	Europe			
	GM	FR 1,303,238	Jul. 30, 1962	France			X
	GN	GB 2329127A	Mar. 17, 1999	Great Britain			
	GO	GB 2333965A	Aug. 11, 1999	Great Britain			
	GP	GB 2342584A	Apr. 19, 2000	Great Britain			

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APPLICANT  
Jeffrey S. Lockwood et al.

FILING DATE  
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GROUP  
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	HA	4,890,608	Jan. 2, 1990	Steer			
	HB	4,897,081	Jan. 30, 1990	Poirier et al.			
	HC	4,906,240	Mar. 6, 1990	Reed et al.			
	HD	4,917,112	Apr. 17, 1990	Kalt			
	HE	4,921,492	May 1, 1990	Schultz et al.			
	HF	4,941,882	Jul. 17, 1990	Ward et al.			
	HG	4,953,565	Sep. 4, 1990	Tachibana et al.			
	HH	4,969,880	Nov. 13, 1990	Zamierowski			
	HI	4,969,881	Nov. 13, 1990	Viesturs			
	HJ	4,990,144	Feb. 5, 1991	Blott			
	HK	4,991,574	Feb. 12, 1991	Pocknell			

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		Document Number	Date	Country	Class	Subclass	Translation Yes No
	HL	GB 2344531A	Jun. 14, 2000	Great Britain			
	HM	GB 2351025A	Dec. 20, 2000	Great Britain			
	HN	GB 3090	Jun. 25, 1902	Great Britain			
	HO	WO 00/21586	Apr. 20, 2000	WO			
	HP	WO 00/38755	Jul. 6, 2000	WO			

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GROUP  
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	IA	4,997,425	Mar. 5, 1991	Shioya et al.			
	IB	4,988,336	Jan. 29, 1991	Kohn			
	IC	5,002,528	Mar. 26, 1991	Palestrant			
	ID	5,002,529	Mar. 26, 1991	Cunningham			
	IE	5,003,971	Apr. 2, 1991	Buckley			
	IF	5,014,389	May 14, 1991	Ogilvie et al.			
	IG	5,034,003	Jul. 23, 1991	Denance			
	IH	5,034,006	Jul. 23, 1991	Hosoda et al.			
	II	5,042,978	Aug. 27, 1991	Quenin et al.			
	IJ	5,060,662	Oct. 29, 1991	Farnsworth, III			
	IK	5,073,172	Dec. 17, 1991	Fell			

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		Document Number	Date	Country	Class	Subclass	Translation Yes No
	IL	WO 00/42958	Jul. 27, 2000	WO			
	IM	WO 00/59418	Oct. 12, 2000	WO			
	IN	WO 00/59424	Oct. 12, 2000	WO			
	IO	WO 00/64394	Nov. 2, 2000	WO			
	IP	WO 01/34223A1	May 17, 2001	WO			

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FILING DATE  
Unknown

GROUP  
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	JA	5,086,763	Feb. 11, 1992	Hathman			
	JB	5,086,764	Feb. 11, 1992	Gilman			
	JC	5,100,396	Mar. 31, 1992	Zamierowski			
	JD	5,106,362	Apr. 21, 1992	Gilman			
	JE	5,106,629	Apr. 21, 1992	Cartmell et al.			
	JF	5,135,518	Aug. 4, 1992	Vera			
	JG	5,147,338	Sep. 15, 1992	Lang et al.			
	JH	5,149,331	Sep. 22, 1992	Ferdman et al.			
	JI	5,152,757	Oct. 6, 1992	Eriksson			
	JJ	5,160,322	Nov. 3, 1992	Scheremet et al.			
	JK	5,167,613	Dec. 1, 1992	Karami et al.			

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		Document Number	Date	Country	Class	Subclass	Translation Yes No
	JL	WO 01/37922A2	May 31, 2001	WO			
	JM	WO 01/49233A1	Jul. 12, 2001	WO			
	JN	WO 01/85248A1	Nov. 15, 2001	WO			
	JO	WO 89/04158	May 18, 1989	WO			
	JP	WO 91/16030	Oct. 31, 1991	WO			

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	JR	
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Jeffrey S. Lockwood et al.

FILING DATE  
Unknown

GROUP  
Unknown

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	KA	5,170,781	Dec. 15, 1992	Loomis			
	KB	5,176,663	Jan. 5, 1993	Svedman et al.			
	KC	5,176,667	Jan. 5, 1993	DeBring			
	KD	5,215,539	Jun. 1, 1993	Schoolman			
	KE	5,228,431	Jul. 20, 1993	Giarretto			
	KF	5,230,350	Jul. 27, 1993	Fentress			
	KG	5,261,893	Nov. 16, 1993	Zamierowski			
	KH	5,263,922	Nov. 23, 1993	Sova et al.			
	KI	5,291,887	Mar. 8, 1994	Stanley et al.			
	KJ	5,298,015	Mar. 29, 1994	Komatsuzaki et al.			
	KK	5,330,452	Jul. 19, 1994	Zook			

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		Document Number	Date	Country	Class	Subclass	Translation Yes No
	KL	WO 94/00090	Jan. 6, 1994	WO			
	KM	WO 94/20041	Sep. 15, 1994	WO			
	KN	WO 96/15745	May 30, 1996	WO			
	KO	WO 99/13793	Mar. 25, 1999	WO			
	KP	WO 00/15277	Mar. 23, 2000	WO			

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

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				APPLICANT Jeffrey S. Lockwood et al.			
				FILING DATE Unknown		GROUP Unknown	

U.S. PATENT DOCUMENTS							
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	LA	5,344,415	Sep. 6, 1994	DeBusk et al.			
	LB	5,349,965	Sep. 27, 1994	McCarver			
	LC	5,358,494	Oct. 25, 1994	Svedman			
	LD	5,374,254	Dec. 20, 1994	Buma			
	LE	5,376,252	Dec. 27, 1994	Eckstrom et al.			
	LF	5,395,315	Mar. 7, 1995	Griep			
	LG	5,431,622	Jul. 11, 1995	Pyrozyk et al.			
	LH	5,437,651	Aug. 1, 1995	Todd et al.			
	LI	5,445,604	Aug. 29, 1995	Lang			
	LJ	5,451,215	Sep. 19, 1995	Wolter			
	LK	5,478,333	Dec. 26, 1995	Asherman, Jr.			

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		Document Number	Date	Country	Class	Subclass	Translation Yes    No
	LL	WO 00/07653	Feb. 17, 2000	WO			
	LM	WO 00/61206	Oct. 19, 2000	WO			
	LN	GB 2336546A	Oct. 27, 1999	Great Britain			
	LO	DE 29504378 U1	Oct. 26, 1995	Germany			X
	LP	EP 0117632 A2	Sept. 5, 1984	Europe			

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				APPLICANT Jeffrey S. Lockwood et al.			
				FILING DATE Unknown		GROUP Unknown	

U.S. PATENT DOCUMENTS							
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	MA	5,484,420	Jan. 16, 1996	Russo			
	MB	5,484,427	Jan. 16, 1996	Gibbons			
	MC	5,487,889	Jan. 30, 1996	Eckert et al.			
	MD	5,527,293	Jun. 18, 1996	Zamierowski			
	ME	5,531,670	Jul. 2, 1996	Westby et al.			
	MF	5,542,918	Aug. 6, 1996	Atkinson			
	MG	5,549,584	Aug. 27, 1996	Gross			
	MH	5,556,375	Sep. 17, 1996	Ewall			
	MI	5,578,022	Nov. 26, 1996	Scherson et al.			
	MJ	5,607,388	Mar. 4, 1997	Ewall			
	MK	5,628,735	May 13, 1997	Skow			

FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation Yes No
	ML						
	MM						
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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)		
	MR	
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*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	NA	5,636,643	Jun. 10, 1997	Argenta et al.			
	NB	5,645,081	Jul. 8, 1997	Argenta et al.			
	NC	5,655,258	Aug. 12, 1997	Heintz			
	ND	5,656,027	Aug. 12, 1997	Ellingboe			
	NE	5,662,598	Sep. 2, 1997	Tobin			
	NF	5,662,624	Sep. 2, 1997	Sundstrom et al.			
	NG	5,662,625	Sep. 2, 1997	Westwood			
	NH	5,678,564	Oct. 21, 1997	Lawrence et al.			
	NI	5,697,920	Dec. 16, 1997	Gibbons			
	NJ	5,735,833	Apr. 7, 1998	Olson			
	NK	5,762,640	Jun. 9, 1998	Kajiwara et al.			

FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation Yes    No
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	NO						
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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)		
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	OA	5,782,871	Jul. 21, 1998	Fujiwara et al.			
	OB	5,817,145	Oct. 6, 1998	Augustine et al.			
	OC	5,827,246	Oct. 27, 1998	Bowen			
	OD	5,911,222	Jun. 15, 1999	Lawrence et al.			
	OE	5,919,476	Jul. 6, 1999	Fischer et al.			
	OF	5,921,972	Jul. 13, 1999	Skow			
	OG	5,928,174	Jul. 27, 1999	Gibbins			
	OH	5,941,859	Aug. 24, 1999	Lerman			
	OI	5,947,914	Sep. 7, 1999	Augustine			
	OJ	5,954,680	Sep. 21, 1999	Augustine			
	OK	5,961,480	Oct. 5, 1999	Augustine			

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		Document Number	Date	Country	Class	Subclass	Translation Yes    No
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APPLICANT  
Jeffrey S. Lockwood et al.

FILING DATE  
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GROUP  
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	PA	5,964,721	Oct. 12, 1999	Augustine			
	PB	5,964,723	Oct. 12, 1999	Augustine			
	PC	5,986,163	Nov. 16, 1999	Augustine			
	PD	6,010,527	Jan. 4, 2000	Augustine et al.			
	PE	6,045,518	Apr. 4, 2000	Augustine			
	PF	6,045,541	Apr. 4, 2000	Matsumoto et al.			
	PG	6,071,254	Jun. 6, 2000	Augustine			
	PH	6,071,267	Jun. 6, 2000	Zamierowski			
	PI	6,071,304	Jun. 6, 2000	Augustine et al.			
	PJ	6,080,189	Jun. 27, 2000	Augustine et al.			
	PK	6,080,243	Jun. 27, 2000	Insley et al.			

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	PL						
	PM						
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	PO						
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	RA	6,093,160	Jul. 25, 2000	Augustine et al.			
	RB	6,095,992	Aug. 1, 2000	Augustine			
	RC	6,110,197	Aug. 29, 2000	Augustine et al.			
	RD	6,113,561	Sep. 5, 2000	Augustine			
	RE	6,117,111	Sep. 12, 2000	Fleischmann			
	RF	6,135,116	Oct. 24, 2000	Vogel et al.			
	RG	6,142,982	Nov. 7, 2000	Hunt et al.			
	RH	6,143,945	Nov. 7, 2000	Augustine et al.			
	RI	6,174,306 B1	Jan. 16, 2001	Fleischmann			
	RJ	6,203,563 B1	Mar. 20, 2001	Fernandez			
	RK	6,207,875 B1	Mar. 27, 2001	Lindqvist et al.			

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	RM						
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	RO						
	RP						

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

	RR	
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ATTY. DOCKET NO.  
7175-71858

SERIAL No.  
10/509,137

APPLICANT  
Jeffrey S. Lockwood et al.

FILING DATE  
Unknown

GROUP  
Unknown

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*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	RA	6,213,965 B1	Apr. 10, 2001	Augustine et al.			
	RB	6,213,966 B1	Apr. 10, 2001	Augustine			
	RC	6,216,701 B1	Apr. 17, 2001	Heaton et al.			
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	RM						
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	RP						

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				APPLICANT Jeffrey S. Lockwood et al.			
				FILING DATE Unknown		GROUP Unknown	

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	SA	6,264,622 B1	Jul. 24, 2001	Augustine			
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	SC	6,267,740 B1	Jul. 31, 2001	Augustine et al.			
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	SO						
	SP						

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	SR	
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	APPLICANT Jeffrey S. Lockwood et al.	
	FILING DATE Unknown	GROUP Unknown

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*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
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	TD						
	TE						
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	TH						
	TI						
	TJ						
	TK						

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation Yes No
	TL						
	TM						
	TN						
	TO						
	TP						

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

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